

NOVEMBER/DECEMBER 2024

**CIM41/FIM41 — JAVA PROGRAMMING**

Time : Three hours

Maximum : 75 marks



**SECTION A — (10 × 2 = 20 marks)**

Answer ALL questions.

1. State any four features of Java.
2. List types of special string operations in java.
3. What is inheritance?
4. Define Array.
5. Write the process of creating and importing packages.
6. List the advantages of multithreading in java.
7. What is iterator?
8. How can we handle an event in Java?
9. Write lifecycle of an applet in java.
10. Define Swing.



SECTION B — ( $5 \times 5 = 25$  marks)

Answer ALL questions.

11. (a) Develop a java program for factorial number using control statements.

Or

- (b) Define Array and explain the different types of Array along with their advantages.

12. (a) Implement java program using constructors with explanation.

Or

- (b) Write a java program for Fibonacci series using recursion.

13. (a) Illustrate a program using interfaces in java.

Or

- (b) Describe overriding methods with illustrations.

14. (a) Write in detail about collection framework in java.

Or

- (b) Develop a java program using JMenuItem and JMenu with explanation.

15. (a) Explain the differences between swing and AWT.

Or

- (b) Discuss swing control classes and methods in java with an illustrations.

SECTION C — ( $3 \times 10 = 30$  marks)

Answer any THREE questions.

16. Describe about the types of data types in java.

17. Explain about comparison of overloading and overriding methods in java.

18. Develop a java program using finally block in exception handling.

19. Discuss in detail about AWT: Frame and event in java with an example program.

20. Illustrate java program for JDBC Connectivity with their steps.

